

# C LANG TEST-8 (POINTERS)

Total points 50/50



**STUDENT NAME \***

VIVA

✓ 1. A pointer is a variable that stores — \*

1/1

- A) Value of another variable
- B) Address of another variable
- C) Both value and address
- D) None



✓ 2. The symbol used to declare a pointer variable is — \*

1/1

- A) &
- B) \*
- C) #
- D) @



✓ 3. The operator & is called — \*

1/1

- A) Value operator
- B) Address-of operator
- C) Reference operator
- D) Multiply operator



✓ 4. operator \* used with a pointer variable gives — \*

1/1

- A) Address stored in pointer
- B) Value stored at that address
- C) Address of pointer itself
- D) None

✓

✓ 5. Which of the following declares a pointer to integer correctly? \*

1/1

- A) int p;
- B) int \*p;
- C) int &p;
- D) pointer int p;

✓

✓ 6. What is the output of this code? \*

1/1

```
int x = 10;  
  
int *p = &x;  
  
printf("%d", *p);
```

- A) 10
- B) Address of x
- C) Garbage
- D) Error

✓

✓ 7. The expression `p = &a;` means — \*

1/1

- A) Value of `a` assigned to `p`
- B) Address of `a` assigned to `p`
- C) Address of `p` assigned to `a`
- D) None

✓

✓ 8. A pointer that does not point to any valid memory location is called — \* 1/1

- A) Void pointer
- B) NULL pointer
- C) Wild pointer
- D) Dangling pointer

✓

✓ 9. What value does a NULL pointer have? \* 1/1

- A) 1
- B) 0
- C) -1
- D) Garbage

✓

✓ 10. Which header file defines NULL in C? \*

1/1

- A) stdlib.h
- B) stdio.h
- C) stddef.h
- D) All of these

✓

✓ 11. A pointer holding an address of a variable which has been deleted or deallocated is – \*1/1

- A) NULL pointer
- B) Wild pointer
- C) Dangling pointer
- D) Void pointer

✓

✓ 12. Which pointer can point to any data type? \*

1/1

- A) Wild pointer
- B) Null pointer
- C) Void pointer
- D) Function pointer

✓

✓ 13. The size of any pointer variable in 32-bit compiler is — \*

1/1

- A) 2 bytes
- B) 4 bytes
- C) 8 bytes
- D) Depends on data type



✓ 14. What is the output? \*

1/1

```
int a = 5;  
int *p = &a;  
printf("%u", p);
```

- A) 5
- B) Address of a
- C) Garbage
- D) Compilation error



✓ 15. Which operator is used to access the value at the address pointed by a pointer? \*1/1

- A) \*
- B) &
- C) ->
- D) %



✓ 16. Which of the following statements is correct? \*

1/1

- A) A pointer can hold an address of only int type
- B) A pointer can hold address of any data type if type-casted properly
- C) Pointer cannot be used for char
- D) None

✓

✓ 17. Pointer arithmetic is allowed on — \*

1/1

- A) void pointers
- B) null pointers
- C) array pointers
- D) all of these

✓

✓ 18. If p is a pointer to integer, then p++ increases its value by — \*

1/1

- A) 1
- B) 2
- C) 4 (if int = 4 bytes)
- D) 8

✓

✓ 19.What will this print? \*

1/1

```
int a[3] = {10,20,30};
```

```
int *p = a;  
printf("%d", *(p+2));
```

- A) 10
- B) 20
- C) 30
- D) Garbage



✓ 20. The expression &\*p is equivalent to - \*

1/1

- A) \*p
- B) &p
- C) p
- D) \*&p



✓ 21.What is the output? \*

1/1

```
int x = 5;
```

```
int *p = &x;
```

```
int **q = &p;
```

```
printf("%d", **q);
```

- A) 5
- B) Address of x
- C) Address of p
- D) Error



✓ 22. A pointer to a pointer is also called – \*

1/1

- A) Double pointer
- B) Pointer chain
- C) Multi-pointer
- D) None

✓

✓ 23. Which of the following initializes a NULL pointer correctly? \*

1/1

- A) `int *p = 0;`
- B) `int *p = NULL;`
- C) Both A and B
- D) None

✓

✓ 24. Pointer arithmetic can only be performed on – \*

1/1

- A) Numeric data types
- B) Arrays
- C) Same type pointers
- D) None

✓

✓ 25.What will be the output? \*

1/1

```
int x = 10, y = 20;
```

```
int *p = &x;
```

```
int *q = &y;
```

```
printf("%d", *p + *q);
```

- A) 10
- B) 20
- C) 30
- D) Garbage



✓ 26. Which of the following is an invalid pointer declaration? \*

1/1

- A) int \*p;
- B) float \*f;
- C) int \*p, q;
- D) int \*p, \*q;



✓ 27. Which function is used to allocate memory dynamically? \*

1/1

- A) malloc()
- B) calloc()
- C) realloc()
- D) All of these



✓ 28. . Which function is used to free allocated memory? \*

1/1

- A) delete()
- B) remove()
- C) free()
- D) clear()

✓

✓ 29. What is the return type of malloc()? \*

1/1

- A) void \*
- B) int \*
- C) char \*
- D) float \*

✓

✓ 30. The pointer to the first element of an array a is — \*

1/1

- A) a
- B) &a
- C) a[0]
- D) &a[1]

✓

✓ 31. The expression  $*(a+i)$  is equivalent to — \*

1/1

- A)  $a[i]$
- B)  $*(a+i+1)$
- C)  $a+i$
- D)  $*a[i]$

✓

✓ 32. A pointer to function is declared using — \*

1/1

- A)  $()$
- B)  $[]$
- C)  $*$
- D)  $\rightarrow$

✓

✓ 33. . What is the correct declaration of a pointer to a function returning int? \*1/1

- A)  $\text{int } *f();$
- B)  $\text{int } (f)();$
- C)  $\text{int } f();$
- D)  $\text{int } f();$

✓

✓ 34. Pointers are mainly used in – \*

1/1

- A) Function arguments
- B) Dynamic memory allocation
- C) Arrays and strings
- D) All of these

✓

✓ 35. What is a wild pointer? \*

1/1

- A) Points to garbage
- B) Points to NULL
- C) Not initialized pointer
- D) Both A and C

✓

✓ 36. . Which pointer is safest to use? \*

1/1

- A) Wild pointer
- B) NULL pointer
- C) Dangling pointer
- D) Void pointer

✓

✓ 37. Which of the following is true about pointer comparison? \*

1/1

- A) Can compare any two pointers
- B) Can compare pointers pointing to same array
- C) Both
- D) None

✓

✓ 38. The value of a pointer variable is – \*

1/1

- A) Variable name
- B) Address
- C) Data type
- D) Value stored

✓

✓ 39. Pointers are used to implement – \*

1/1

- A) Arrays
- B) Strings
- C) Linked Lists
- D) All of these

✓

✓ 40.What will the following code print? \*

1/1

```
int x = 10;  
int *p = &x;  
*p = 20;  
printf("%d", x);
```

- A) 10
- B) 20
- C) Garbage
- D) Error



✓ 41. Pointer increment depends on — \*

1/1

- A) Data type size
- B) Value of variable
- C) Type of compiler
- D) OS



✓ 42.. What will be printed? \*

1/1

```
int a[3] = {1,2,3};  
int *p = a;  
printf("%d", *(p++));
```

- A) 1
- B) 2
- C) 3
- D) Garbage



✓ 43. Which of the following is NOT a valid pointer type? \*

1/1

- A) int \*
- B) float \*
- C) bool \*
- D) string \*



✓ 44. What does this code print? \*

1/1

```
int a=10;  
int *p=&a;  
printf("%d", *a);
```

- A) 10
- B) Address of a
- C) Garbage
- D) Error



✓ 45. A pointer variable can be used to – \*

1/1

- A) Store an address
- B) Change value indirectly
- C) Access array elements
- D) All of these



✓ 46.What is the output? \*

1/1

```
int a=5, b=10;  
int *p=&a;  
*p=*p + b;  
printf("%d", a);
```

- A) 5
- B) 10
- C) 15
- D) Garbage



✓ 47. A function can return — \*

1/1

- A) A value
- B) A pointer
- C) Both A and B
- D) None



✓ 48. Which of these statements about pointer arrays is correct? \*

1/1

- A) Each element is a pointer
- B) It holds addresses of variables
- C) It can point to strings
- D) All of these



✓ 49. What is the difference between array name and pointer variable? \* 1/1

- A) Array name is constant pointer
- B) Pointer can change its address
- C) Array name cannot change its address
- D) All of these



✓ 50. Which of the following statements is TRUE? \* 1/1

- A) Pointer to void cannot be dereferenced directly
- B) Pointer arithmetic cannot be done on void pointers
- C) Pointers must be initialized before use
- D) All of the above



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